



PTO/SB/21 (08-03)

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1627

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	10/014,716	
	Filing Date	December 14, 2001	
	First Named Inventor	Stephen P.A. Fodor	
	Art Unit	1627	
	Examiner Name	Ponnaluri, P.	
Total Number of Pages in This Submission	324	Attorney Docket Number	018547-048200US

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): - IDS Statement: 5 pgs - 1449 Form: 38 pgs - New References: 18 new references identified in this IDS that are included in this packet.
<b>Remarks</b>		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Philip McGarrigle (Reg.No. 31,395)
Signature	
Date	March 4, 2004

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Roger Kuan		
Signature		Date	March 5, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT  
Attorney Docket No.: 018547-048200US  
Client Reference No.: 1000.3D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Stephen P. A. Fodor et al.

Application No.: 10/014,716

Filed: December 14, 2001

For: VERY LARGE SCALE  
IMMOBILIZED POLYMER  
SYNTHESIS

Examiner: Ponnaluri, P.

Art Unit: 1627

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants are hereby submitting references for the Examiner's consideration. However, they are mindful of the large number of references that have been cited in the IDS and attendant PTO-1449 forms filed herewith. These references have arisen during multiple litigations and oppositions involving patents that relate to the present application as well as the normal course of prosecution. Applicants have cited them to fulfill their duty of disclosure. In an effort to make the review of these references more manageable on the Examiner, Applicants have provided the PTO with multiple copies of two compact discs (CDs) with the references available for electronically viewing or searching. Previous versions of this IDS and CD set have been submitted to the PTO for references that were available at the time they were created. These CDs can be found in application serial number USSN 08/348,471, filed November 30, 1994 and issued as US Patent 6,420,169 on July 16, 2002 (Attorney Docket No. 018547-000116US), which was previously submitted to the PTO. The current IDS incorporate additional references

that have recently been disclosed in an interference. References ZX - ZZ and AAA - AAO (bolded on 1449 form) have been identified and hard copies of same are enclosed herewith.

Applicant's representative, Mr. Philip McGarrigle, has provided the above referenced CDs to Supervisory Primary Examiners Michael Woodward and Gary Jones, and Special Examiner Cecilia Tsang. Additional copies of those CDs were also given to these supervisors and Group Director John Doll. The CDs given to Mssrs. Woodward and Jones were for distribution to individual Examiners within their respective groups as they saw fit. The CDs presented to Examiner Tsang were to accompany the hard copies of the references in the IDS, which are in a central location in her office for the availability of all Examiners.

Of the two CDs that make up the IDS, one contains the articles and another contains patents/published applications. The CD containing the articles is in .pdf format and can be viewed by selecting the appropriate article as discussed below. The patent CD contains text versions and versions of the patents with the appropriate figures. It is fully searchable and contains a program that has the ability to search for specific terms or to use Boolean logic to formulate more specific searches. There are links within each full text patent to the patents that are cited therein.

The vendor who prepared the patent literature CD suggests that you open the README.HTML file in the root directory of the CD before use. It contains the directions on how to use the CD, as well as a hyperlink to the patent list. The CD that contains the articles suggests that you open "Index" or "Index2" to view images. You will see 1449 forms which list the articles which can be opened by clicking on the hyperlinked number of the article in the left hand column.

Additionally, Applicants would like to notify the Examiner of inter partes matters that relate to the present application. Two commonly owned patents US 5,744,305 and US 5,800,992 have been involved in interference proceedings. Specifically, the interferences were Interference No. 104,359 between commonly owned US 5,744,305 and Brown et al., USSN

08/688,488, and Interference No. 104,358 between commonly owned US 5,800,992 and USSN 08/514,875. Both interferences have been decided (subject to current appeal in District Court of Northern California, Civil Case No. C99 21111-JF/EAI) by the USPTO in favor of real party in interest Affymetrix, the assignee of the present application. The Junior party challenged the patents on the basis of lack of enablement and written description under 35 USC §112, among other issues. The Junior party's initial position is set out in papers (with supporting information) entitled "Request for Declaration of Interference, 37 C.F.R. §1.608" in both interferences. The initial response of Senior party Patentee is set out in papers (with supporting information) entitled "Fodor's Opposition to Brown's Rule 608(b) Request" in both interferences.

Further, US 5,744,305, US 5,445,934 and US 5,800,992 have been the subject of litigation (*Affymetrix, Inc. v. Hyseq, Inc.*, US District Court for the Northern District of California, San Francisco Division, Civil Action No. C98-03192 FMS, and *Affymetrix. v. Synteni, Inc. and Incyte Pharmaceuticals, Inc.*, US District Court for the Northern District of California, San Francisco, Case No. C98-4508 FMS (MEJ)). In the course of these proceedings, allegations of invalidity over prior art, lack of enablement, lack of support and inequitable conduct (relating to duty of candor, content of declarations under 37 CR §1.132, and arguments made during prosecution) were raised. These allegations were denied. In a more recent lawsuit with Incyte Genomics (*Incyte Genomics Inc. v. Affymetrix*, U.S. District Court, Northern district of California, San Francisco division and is Case No. C 00-3210 JF.), Affymetrix counterclaimed for patent infringement under U.S. patent 5,871,928 ('928) and 6,040,193. Incyte has filed their "Initial Disclosure of Prior Art" and the references cited therein have been included into the current IDS.

All of the above lawsuits have been settled. Prior to settlement, there was a Markman decision regarding the '305 and '934 patents but no decision on the merits. In the '992 patent, the court held that the claim term "substantially complementary" was indefinite and there

was lack of written description for the word "mixture" in the claims of the '992 patent. No substantive decisions were made in the lawsuit involving the '928 and '193 patents.

Further, oppositions have been filed against a related European application EP 619,321 in the European Patent Office, and a revocation proceeding was brought in the United Kingdom against related patents GB 2,248,840 and EP (UK) 0619 321. Collectively, these proceedings generated a considerable number of references, which were cited on the information disclosure statement and CDs filed above. Applicants can provide copies of litigation documents that may be of interest to the Examiner, but have not done so due to the extensive nature of the multiple litigation and papers filed therein. The revocation proceedings have been settled without any decision on the merits.

Applicants also wish to identify two other interferences that were declared and settled between applications that are related to the present application. One application serial number is 09/063,933 and the interference was declared with U.S. Patent No. 6,054,270 (E. Southern). The interference no. was 104,658. The interference has been settled with priority for certain claims to Southern. However, other claims not corresponding to the interference count have been allowed to applicants from the '933 application. The second interference involved application serial number USSN 09/614,068 and the interference was declared with U.S. Patent Nos. 5,922,534 (K. Lichtenwalter) and 6,255,053 (K. Lichtenwalter). The interference number was 105,089, but it has subsequently been terminated due to a motion of patent invalidity based on prior art. Both Agilent patents were invalidated and the Affymetrix claims that were copied from the two patents were declared unpatentable.


The references cited on attached form PTO-1449 are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 08/348,471, filed November 30, 1994 and issued as US Patent 6,420,169 on July 16, 2002 (Attorney Docket No. 018547-000116US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references

be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

  
Philip McGarrigle  
Reg. No. 31,395

March 4, 2004

Customer No. 22886  
Affymetrix Inc.  
3380 Central Expressway  
Santa Clara, CA 95051



PTO/SB/08A (10-01)  
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **1** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

### U.S. PATENT DOCUMENTS

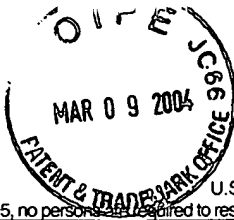
Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	ZX	3,642,450	2/15/72	Eriksson et al.	
	AA	3,730,844	5/1/73	Gilham et al.	
	AB	3,849,137	11/19/74	Barzynski et al.	
	AC	3,862,056	1/21/75	Hartman	
	AD	3,939,350	2/17/78	Kronick et al.	
	AE	4,072,576	2/7/78	Arwin et al.	
	AF	4,121,222	10/17/78	Diebold et al.	
	AG	4,180,739	12/25/79	Abu-Shumays	
	AH	4,216,245	8/5/80	Johnson	
	AI	4,238,757	12/9/80	Schenck	
	AJ	4,269,933	5/26/81	Pazos	
	AK	4,314,821	2/9/82	Rice	
	AL	4,327,073	4/27/82	Huang	
	AM	4,339,528	7/13/82	Goldman	
	AN	4,342,905	8/3/82	Fujii et al.	
	AO	4,373,071	2/8/83	Itakura	
	AP	4,395,486	7/26/83	Wilson et al.	
	AQ	4,405,771	9/20/83	Jagur	
	AR	4,444,878	4/24/84	Paulus	
	AS	4,444,892	4/24/84	Malmros	
	AT	4,448,534	5/15/84	Wertz et al.	
	AU	4,458,066	7/3/84	Caruthers et al.	
	AV	4,477,556	10/16/84	Dueber et al.	
	AW	4,478,967	10/23/84	Eian et al.	
	AX	4,483,920	11/20/84	Gillespie et al.	
	AY	4,500,707	2/19/85	Caruthers et al.	
	AZ	4,500,919	2/19/85	Schreiber	
	BA	4,516,833	5/14/85	Fusek	
	BB	4,517,338	5/14/85	Urdea et al.	
	BC	4,533,682	8/6/85	Tortorello et al.	
	BD	4,537,861	8/27/85	Elings et al.	
	BE	4,542,102	9/17/85	Dattagupta et al.	
Examiner Signature			Date Considered		

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

Sheet **2** of **38**

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	BF	4,555,490	11/26/85	Merril	
	BG	4,556,643	12/3/85	Paau et al.	
	BH	4,562,157	12/31/85	Lowe et al.	
	BI	4,563,419	1/7/86	Ranki et al.	
	BJ	4,569,967	2/11/86	Kornreich et al.	
	BK	4,580,895	4/8/86	Patel	
	BL	4,584,277	4/22/86	Ullman	
	BM	4,588,682	5/13/86	Groet et al.	
	BN	4,591,570	5/27/86	Chang	
	BO	4,598,049	7/1/86	Zelinka et al.	
	BP	4,613,566	9/23/86	Potter	
	BQ	4,624,915	11/25/86	Schindler et al.	
	BR	4,626,684	12/2/86	Landa	
	BS	4,631,211	12/23/86	Houghten	
	BT	4,637,861	1/20/87	Krull et al.	
	BU	4,656,127	4/7/87	Mundy	
	ZY	4,563,417	1/7/86	Albarella et al.	
	BV	4,670,380	6/2/87	Dattagupta	
	BW	4,677,054	6/30/87	White et al.	
	BX	4,681,859	7/21/87	Kramer	
	BY	4,683,195	7/28/87	Mullis et al.	
	BZ	4,683,202	7/28/87	Mullis	
	CA	4,689,405	8/25/87	Frank et al.	
	CB	4,704,353	11/3/87	Humphries et al.	
	CC	4,711,955	12/8/87	Ward et al.	
	CD	4,713,326	12/15/87	Dattagupta et al.	
	CE	4,713,347	12/15/87	Mitchell et al.	
	CF	4,715,413	12/29/87	Backlund et al.	
	CG	4,715,929	12/29/87	Ogawa	
	CH	4,716,106	12/29/87	Chiswell	
	CI	4,719,179	1/12/88	Barany	

Examiner  
Signature

Date  
Considered

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **3** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	CJ	4,719,615	1/12/88.	Feyrer et al.	
	CK	4,722,906	2/2/88	Guire	
	CL	4,728,502	3/1/88	Hamill	
	CM	4,728,591	3/1/88	Clark et al.	
	CN	4,731,325	3/15/88	Palva et al.	
	CO	4,737,344	4/12/88	Koizumi et al.	
	CP	4,755,458	7/5/88	Rabbani et al.	
	CQ	4,758,727	7/19/88	Tomei et al.	
	CR	4,762,881	8/9/88	Kauer	
	CS	4,766,062	8/23/88	Diamond et al.	
	CT	4,767,700	8/30/88	Wallace	
	CU	4,777,019	10/11/88	Dandekar	
	CV	4,780,504	10/25/88	Buendia et al.	
	CW	4,786,170	11/22/88	Groebler	
	CX	4,786,684	11/22/88	Glass	
	CY	4,794,150	12/27/88	Steel	
	CZ	4,808,508	2/28/89	Platzer	
	DA	4,810,869	3/7/89	Yabe et al.	
	DB	4,811,062	3/7/89	Tabata et al.	
	DC	4,811,218	3/7/89	Hunkapiller et al.	
	DD	4,812,512	3/14/89	Buendia et al.	
	DE	4,820,630	4/11/89	Taub	
	DF	4,822,566	4/18/89	Newman	
	DG	4,833,092	5/23/89	Geysen	
	DH	4,844,617	7/4/89	Kelderman et al.	
	DI	4,846,552	7/11/89	Veldkamp et al.	
	DJ	4,849,513	7/18/89	Smith et al.	
	DK	4,855,225	8/8/89	Fung et al.	
	DL	4,865,990	9/12/89	Stead et al.	
	DM	4,868,103	9/19/89	Stavrianopoulos et al.	
	DN	4,874,500	10/17/89	Madou et al.	

Examiner  
Signature

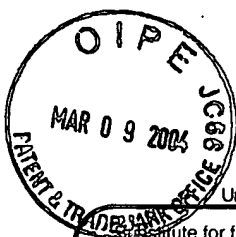
Date  
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Sheet **4** of **38**

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First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
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		Number Kind Code <sup>2</sup> (if known)			
	DO	4,877,745	10/31/89	Hayes et al.	
	DP	4,886,741	12/12/89	Schwartz	
	DQ	4,888,278	12/19/89	Singer et al.	
	DR	4,921,805	5/1/90	Gebeyehu et al.	
	DS	4,923,901	5/8/90	Koester et al.	
	DT	4,925,785	5/15/90	Wang et al.	
	DU	4,931,384	6/5/90	Layton et al.	
	DV	4,946,942	8/7/90	Fuller et al.	
	DW	4,965,188	10/23/90	Mullis et al.	
	DX	4,973,493	11/27/90	Guire	
	DY	4,979,959	12/25/90	Guire	
	DZ	4,981,783	1/1/91	Augenlicht	
	EA	4,981,985	1/1/91	Kaplan et al.	
	EB	4,984,100	1/8/91	Takayama et al.	
	EC	4,987,065	1/22/91	Stavrianopoulos et al.	
	ED	4,988,617	1/29/91	Landegren et al.	
	EE	4,992,383	2/12/91	Farnsworth	
	EF	4,994,373	2/19/91	Stavrianopoulos et al.	
	ZZ	4,996,142	2/26/91	Al-Hakim et al.	
	EG	5,002,867	3/26/91	Macevicz	
	EH	5,006,464	4/9/91	Chu et al.	
	EI	5,011,770	4/30/91	Kung et al.	
	EJ	5,013,669	5/7/91	Peters, Jr. et al.	
	EK	5,021,550	6/4/91	Zeiger	
	EL	5,026,773	6/25/91	Steel	
	EM	5,026,840	6/25/91	Dattagupta et al.	
	EN	5,028,525	7/2/91	Gray et al.	
	EO	5,028,545	7/2/91	Soini	
	EP	5,037,882	8/6/91	Steel	
	EQ	5,043,265	8/27/91	Tanke et al.	
	ER	5,047,524	9/10/91	Andrus et al.	

Examiner  
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Date  
Considered

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<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
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Sheet **5** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	ES	5,064,754	11/12/91	Mills	
	ET	5,077,085	12/31/91	Schnur et al.	
	EU	5,077,210	12/31/91	Eigler et al.	
	EV	5,079,600	1/7/92	Schnur et al.	
	EW	5,081,584	1/14/92	Omichinski et al.	
	EX	5,082,830	1/21/92	Brakel et al.	
	EY	5,091,652	2/25/92	Mathies et al.	
	EZ	5,096,807	3/17/92	Leaback	
	FA	5,100,626	3/31/92	Levin	
	FB	5,100,777	3/31/92	Chang	
	FC	5,112,962	5/12/92	Letsinger et al.	
	FD	5,141,813	8/25/92	Nelson	
	FE	5,143,854	9/1/92	Pirung et al.	
	FF	5,149,625	9/22/92	Church et al.	
	FG	5,153,319	10/6/92	Caruthers et al.	
	FH	5,164,319	11/17/92	Hafeman et al.	
	FI	5,171,534	12/15/92	Smith et al.	
	FJ	5,171,695	12/15/92	Ekins	
	FK	5,188,963	2/23/93	Stapleton	
	FL	5,192,980	3/9/93	Dixon et al.	
	FM	5,200,051	4/6/93	Cozzette et al.	
	FN	5,202,231	4/13/93	Drmanac et al.	
	FO	5,206,137	4/27/93	Ip et al.	
	FP	5,215,882	6/1/93	Bahl et al.	
	FQ	5,215,889	6/1/93	Schultz	
	FR	5,219,726	6/15/93	Evans	
	FS	5,225,326	7/6/93	Bresser et al.	
	FT	5,232,829	8/3/93	Longiaru et al.	
	FU	5,235,028	8/10/93	Barany et al.	
	FV	5,242,794	9/7/93	Whiteley et al.	
	FW	5,242,974	9/7/93	Holmes	
	FX	5,252,743	10/12/93	Barrett et al.	
Examiner Signature		Date Considered			

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Sheet 6 of 38

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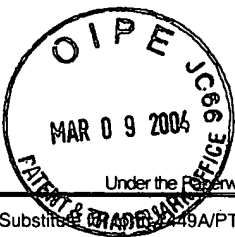
Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	FY	5,256,549		10/26/93	Urdea et al.
	FZ	5,258,506		11/2/93	Urdea et al.
	GA	5,306,641		4/26/94	Saccocio
	GB	5,310,893		5/10/94	Erlich et al.
	GC	5,324,633		6/28/94	Fodor et al.
	GD	5,328,824		7/12/94	Ward et al.
	GE	5,348,855		9/20/94	Dattagupta et al.
	GF	5,384,261		1/24/95	Winkler et al.
	GG	5,405,783		4/11/95	Pirrung et al.
	GH	5,424,186		6/13/95	Fodor et al.
	GI	5,424,188		6/13/95	Schneider et al.
	GJ	5,432,099		6/11/95	Ekins
	GK	5,436,327		7/25/95	Southern et al.
	GL	5,445,934		8/29/95	Fodor et al.
	GM	5,447,841		9/5/95	Gray et al.
	GN	5,474,796		12/12/95	Brennan
	GO	5,486,452		1/23/96	Gordon et al.
	GP	5,489,507		2/6/96	Chehab
	GQ	5,489,678		2/6/96	Fodor et al.
	GR	5,492,806		2/20/96	Drmanac et al.
	GS	5,494,810		2/27/96	Barany et al.
	GT	5,510,270		4/23/96	Fodor et al.
	GU	5,521,065		5/28/96	Whiteley et al.
	GV	5,525,464		6/11/96	Drmanac et al.
	GW	5,527,681		6/18/96	Holmes
	GX	5,552,270		9/3/96	Khrapko et al.
	GY	5,556,961		9/17/96	Foote et al.
	GZ	5,561,071		10/1/96	Hollenberg et al.
	HA	5,569,584		10/29/96	Augenlicht
	HB	5,571,639		11/5/96	Hubbell et al.
	HC	5,593,839		1/14/97	Hubbell et al.
	HD	5,599,720		2/4/97	Ekins
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Sheet **7** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	HE	5,604,099	2/18/97	Erlich et al.	
	HF	5,643,728	7/1/97	Slater et al.	
	HG	5,653,939	8/5/97	Hollis et al.	
	HH	5,667,667	9/16/97	Southern	
	HI	5,667,972	9/16/97	Drmanac et al.	
	AAA	5,688,642	11/18/97	Chrisey et al.	
	HJ	5,695,940	12/9/97	Drmanac et al.	
	HK	5,698,393	12/16/97	Macioszek et al.	
	HL	5,700,637	12/23/97	Southern	
	HM	5,707,806	1/13/98	Shuber	
	HN	5,744,101	4/28/98	Fodor et al.	
	HO	5,744,305	4/28/98	Fodor et al.	
	HP	5,753,788	5/19/98	Fodor et al.	
	HQ	5,770,456	6/23/98	Holmes	
	HR	5,776,737	7/7/98	Dunn	
	HS	5,777,888	7/7/98	Rine et al.	
	HT	5,800,992	9/1/98	Fodor et al.	
	HU	5,807,522	9/15/98	Brown et al.	
	HV	5,830,645	11/3/98	Pinkel et al.	
	HW	5,837,832	11/17/98	Chee et al.	
	HX	5,843,767	12/1/98	Beattie	
	HY	5,846,708	12/8/98	Hollis et al.	
	HZ	5,869,237	2/9/99	Ward et al.	
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	IF	6,040,166	3/21/00	Erlich et al.	
	IG	6,054,270	4/25/00	Southern	
	IH	6,124,102	9/26/00	Fodor et al.	
	II	6,200,748	3/13/01	Smith et al.	

Examiner Signature		Date Considered	
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Sheet **8** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	IJ	6,225,625 B1	5/1/01	Pirrung et al.	
	IK	6,261,776 B1	7/17/01	Pirrung et al.	
	IL	6,291,183 B1	9/18/01	Pirrung et al.	
	IM	6,310,189 B1	10/30/01	Fodor et al.	
	IN	6,329,143 B1	12/11/01	Stryer et al.	
	IO	6,346,413 B1	2/12/02	Fodor et al.	
	IP	6,403,957 B1	6/11/02	Fodor et al.	
	IQ	6,406,844 B1	6/18/01	Fodor et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
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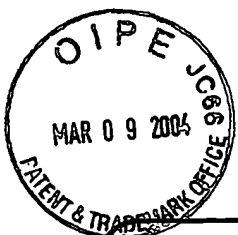
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**INFORMATION DISCLOSURE  
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Sheet **9** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	KN	WO	88/04777		6/30/88			<input type="checkbox"/>

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**INFORMATION DISCLOSURE  
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Sheet **10** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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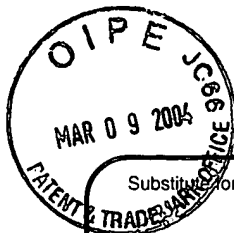
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **11** of **38**

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Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
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	LU	WO	97/19410	5/29/97			<input type="checkbox"/>
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Sheet **12** of **38**

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **13** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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	AAB	"Chapter 6: Chemistry for Automated DNA/RNA Synthesis" <u>Applied Biosystems Models 392 and 394 DNA/RNA Synthesizers: Users Manual Applied Biosystems</u> , (1991)	
	AAC	"Van Nostrand Reinhold: Encyclopedia of Chemistry (4th ed.)," pg. 366 (1984)	
	MW	Abbott et al., "Manipulation of the Wettability of Surfaces on the 0.1 - to 1 -Micrometer Scale Through Micromachining and Molecular Self-Assembly," <u>Science</u> , 257:1380-1382 (1992)	
	MX	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <u>Science</u> , 252(5013):1651-1656 (1991)	
	MY	Adams et al., "Photolabile Chelators That "Cage" Calcium with Improved Speed of Release and Pre-Photolysis Affinity," <u>J. Gen. Physiol.</u> , pg. 9a (12/86)	
	MZ	Adams et al., "Biologically Useful Chelators That Take Up Ca <sup>2+</sup> upon Illumination," <u>J. Am. Chem. Soc.</u> , 111:7957-7968 (1989)	
	NA	Ajayaghosh et al., "Solid-Phase Synthesis of N-Methyl- and N-Ethylamides of Peptides Using Photolytically Detachable ((3-Nitro-4((alkylamino)methyl)benzamido)methyl)polystyrene Resin," <u>J. Org. Chem.</u> , 55(9):2826-2829 (1990)	
	NB	Ajayaghosh et al., "Solid-phase synthesis of C-terminal peptide amides using a photoremovable $\alpha$ -methylphenacylamido anchoring linkage," <u>Proc. Ind. Natl. Sci (Chem.Sci.)</u> , 100(5):389-396 (1988)	
	NC	Ajayaghosh et al., "Polymer-supported Solid-phase Synthesis of C-Terminal Peptide N-Methylamides Using a Modified Photoremovable 3-Nitro-4-N-methylaminomethylpolystyrene Support," <u>Ind.J.Chem.</u> , 27B:1004-1008 (1988)	
	ND	Ajayaghosh et al., "Polymer-Supported Synthesis of Protected Peptide Segments on a Photosensitive o-Nitro( $\alpha$ -Methyl)Bromobenzyl Resin," <u>Tetrahedron</u> , 44(21):6661-6666 (1988)	
	NE	Amit et al., "Photosensitive Protecting Groups of Amino Sugars and Their Use in Glycoside Synthesis. 2-Nitrobenzyloxycarbonylamino and 6-Nitroveratryloxycarbonylamino Derivatives," <u>J. Org. Chem.</u> , 39(2):192-196 (1974)	
	NF	Amit et al., "Photosensitive Protecting Groups - A Review," <u>Israel J. Chem.</u> , 12(1-2):103-113 (1974)	
	NG	Anand et al., "A 3.5 genome equivalent multi access YAC library: construction, characterisation, screening and storage," <u>Nuc. Acids Res.</u> , 18(8):1951-1956 (1990).	
	NH	Anderson et al., "Quantitative Filter Hybridisation," chapter 3 from <u>Nucleic Acid Hybridization a practical approach</u> , pgs. 73-111, Hames et al., eds., IRL Press (1985).	

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Date  
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**INFORMATION DISCLOSURE  
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38

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Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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	NI	Applied Biosystems, Model 431A Peptide Synthesizer User's manual, Sections 2 and 6, (8/15/89)	
	NJ	Arnold et al., "A Novel Universal Support for DNA & RNA Synthesis," abstract from <u>Federation Proceedings</u> , 43(7): abstract no. 3669 (1984)	
	NK	Atherton et al., Solid Phase Peptide Synthesis: A Practical Approach, IRL Press, (1989), tbl. of cont., pp. vii-ix	
	NL	Augenlicht et al., "Cloning and Screening of Sequences Expressed in a Mouse Colon Tumor," <u>Cancer Research</u> , 42:1088-1093 (1982)	
	NM	Augenlicht et al., "Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate <i>in Vitro</i> ," <u>Cancer Res.</u> , 47:6017-6021 (1987)	
	NN	Bains, W., "Hybridization Methods for DNA Sequencing," <u>Genomics</u> , 11(2):294-301 (1991)	
	NO	Bains et al., "A Novel Method for Nucleic Acid Sequence Determination," <u>J.Theor.Biol.</u> , 135:303-307 (1988)	
	NP	Bains, W., "Alternative Routes Through the Genome," <u>Biotechnology</u> , 8:1251-1256 (1988)	
	NQ	Balachander et al., "Functionalized Siloxy-Anchored Monolayers with Exposed Amino, Azido, Bromo, or Cyano Groups," <u>Tetrahed. Ltrs.</u> , 29(44):5593-5594 (1988)	
	NR	Baldwin et al., "New Photolabile Phosphate Protecting Groups," <u>Tetrahed.</u> , 46(19):6879-6884 (1990)	
	NS	Ballard et al., "Imaging Genes, Chromosomes and Nuclear Structures Using Laser-Scanning Confocal Microscopy," <u>SPIE, Bioimaging and Two-Dimensional Spectroscopy</u> , 1205:1-10, conference held 1/18-19/90, Los Angeles, CA., abstract also included (1990).	
	NT	Bannwarth et al., "Laboratory Methods, A System for the Simultaneous Chemical synthesis of Different DNA Fragments on Solid Support," <u>DNA</u> , 5(5):413-419 (1986).	
	NU	Bannwarth, W., "Gene Technology: a Challenge for a Chemist," <u>CHIMIA</u> , 41(9):302-317 (1987).	
	NV	Barany, F., "Genetic disease detection and DNA amplification using cloned thermostable ligase," <u>PNAS</u> , 88:189-193 (1991).	

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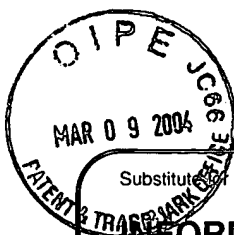
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	NW	Bartrop et al., "Photosensitive Protective Groups," <u>Chemical Communications</u> , pgs. 822-823 (1966)	
	NX	Barinaga, M., "Will 'DNA Chip' Speed Genome Initiative," <u>Science</u> , 253:1489 (1985)	
	NY	Bart et al., "Microfabricated Electrohydrodynamic Pumps," <u>Sensors and Actuators</u> , A21-A23:193-197 (1990)	
	NZ	Bartsh et al., "Cloning of mRNA sequences from the human colon: Preliminary characterisation of defined mRNAs in normal and neoplastic tissues," <u>Br.J.Can.</u> , 54:791-798 (1986)	
	OA	Baum, R., "Fledgling firm targets drug discovery process," <u>Chem. Eng. News</u> , p. 10-11 (1990)	
	OB	Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," <u>Methods in Enzymology</u> , 100:266-285 (1983)	
	OC	Benschop, Chem. Abstracts 114(26):256643 (1991)	
	OD	Bhatia et al., "New Approach To Producing Patterned Biomolecular Assemblies," <u>J. American Chemical Society</u> , 114:4432-4433 (1992)	
	OE	Biorad Chromatography Electrophoresis Immunochemistry Molecular Biology HPLC catalog M 1987 pp. 182	
	OF	Blawas et al., "Step-and-Repeat Photopatterning of Protein Features Using Caged-Biotin-BSA: Characterization and Resolution," <u>Langmuir</u> , 14(15):4243-4250 (1998)	
	OG	Blawas, A.S., "Photopatterning of Protein Features using Caged-biotin-Bovine Serum Albumin," dissertation for Ph.D at Duke University in 1998	
	OH	Bos et al., "Amino-acid substitutions at codon 13 of the N-ras oncogene in human acute myeloid leukaemia," <u>Nature</u> , 315:726-730 (1985)	
	OI	Boyle et al., "Differential distribution of long and short interspersed element sequences in the mouse genome: Chromosome karyotyping by fluorescence <i>in situ</i> hybridization," <u>PNAS</u> , 87:7757-7761 (1990)	
	OJ	Brock et al., "Rapid fluorescence detection of <i>in situ</i> hybridization with biotinylated bovine herpesvirus-1 DNA probes," <u>J.Veterinary Diagnostic Invest.</u> , 1:34-38 (1989)	

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	OK	Burgi et al., "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis," <u>Anal. Chem.</u> , 63:2042-2047 (1991)	
	OL	Burns et al., "Scanning Silt Aperture Confocal Microscopy for Three-Dimensional Imaging," <u>Scanning</u> , 12:156-160 (1990).	
	OM	Cameron et al., "Photogeneration of Organic Bases from o-Nitrobenzyl-Derived Carbamates," <u>J. Am. Chem. Soc.</u> , 113:4303-4313 (1991)	
	ON	Carrano et al., "A High-Resolution, Fluorescence-Based, Semiautomated Method for DNA Fingerprinting," <u>Genomics</u> , 4:129-136 (1989)	
	OO	Caruthers, M.H., "Gene Synthesis Machines: DNA Chemistry and Its Uses," <u>Science</u> , 230:281-285 (1985)	
	OP	Chatterjee et al., "Inducible Alkylation of DNA Using an Oligonucleotide-Quinone Conjugate," <u>Am. J. Chem. Soc.</u> , 112:6397-6399 (1990)	
	OQ	Chee et al., "Accessing Genetic Information with High-Density DNA Arrays," <u>Science</u> , 274:610-614 (1996)	
	OR	Chehab et al., "Detection of sickle cell anaemia mutation by colour DNA amplification," <u>Lancet</u> , 335:15-17 (1990)	
	OS	Chehab et al., "Detection of specific DNA sequences by fluorescence amplification: A color complementation assay," <u>PNAS</u> , 86:9178-9182 (1989)	
	OT	Chetverin et al., "Oligonucleotide Arrays: New Concepts and Possibilities," <u>Biotechnology</u> , 12:1093-1099 (1994).	
	AAD	Chow et al., "A High Capacity, Reusable Oligodeoxythymidine Affinity Column," <u>Analytical Biochemistry</u> , 175:63-66 (1988).	
	OU	Church et al., "Multiplex DNA sequencing," <u>Science</u> , 240:185-188 (1988).	
	OV	Church et al., "Genomic sequencing," <u>PNAS</u> , 81:1991-1995 (1984).	
	OW	Clevite Corp., Piezoelectric Technology, Data for Engineers	

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Considered

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 17 of 38

## Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	OX	Corbett et al., "Reaction of Nitroso Aromatics with Glyoxylic Acid. A New Path to Hydroxamic Acids," <u>J. Org. Chem.</u> , 45:2834-2839 (1980)	
	OY	Coulson et al., "Toward a physical map of the genome of the nematode <i>Caenorhabditis elegans</i> ," <u>PNAS</u> , 83:7821-7825 (1986).	
	OZ	Craig et al., "Ordering of cosmid clones covering the Herpes simplex virus type 1 (HSV-1) genome: a test case for fingerprinting by hybridization," <u>Nuc. Acid. Res.</u> , 18(9):2653-2660 (1990)	
	PA	Cummings et al., "Photoactivable Fluorophores. I. Synthesis and Photoactivation of o-Nitrobenzyl-Quenched Fluorescent Carbamates," <u>Tetrahedron Letters</u> , 29(1):65-68 (1988)	
	PB	Dattagupta et al., "Rapid identification of Microorganisms by Nucleic Acid Hybridization after Labeling the Test Sample," <u>Anal. Biochem.</u> , 177:85-89 (1989).	
	PC	Dattagupta et al., "Nucleic Acid Hybridization: a Rapid Method for the Diagnosis of Infectious Diseases," <u>Perspectives in Antiinfective Therapy</u> , eds. Jackson et al., pages 241-247 (1988).	
	AAE	Davis et al., "Basic methods in Molecular Biology," pgs. 62-65, 75-78 (1986)	
	PD	Dower et al., "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries," <u>Ann. Rep. Med. Chem.</u> , 26:271-280 (1991).	
	PE	Diggelmann, "Investigating the VLSIPS synthesis process," 9/9/94	
	PF	Di Mauro et al., "DNA Technology in Chip Construction," <u>Adv. Mater.</u> , 5(5):384-386 (1993)	
	PG	Drmanac et al., "An Algorithm for the DNA Sequence Generation from k-Tuple Word Contents of the Minimal Number of Random Fragments," <u>J. Biomol. Struct. Dyn.</u> , 8(5):1085-1102 (1991).	
	PH	Drmanac et al., "Partial Sequencing by Oligo-Hybridization Concept and Applications in Genome Analysis," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 60-74 (1990)	
	PI	Drmanac et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program?," 1st Int. Conf. Electrophor., Supercomp., Hum. Genome pgs. 47-59 (1990)	
	PJ	Drmanac et al., "Laboratory Methods, Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," <u>DNA and Cell Biol.</u> , 9(7):527-534 (1990)	

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STATEMENT BY APPLICANT**

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Sheet **18** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

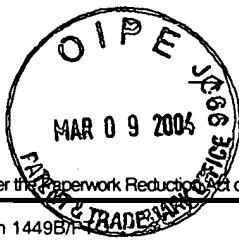
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	PK	Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: theory of the Method," <u>Genomics</u> , 4:114-128 (1989)	
	PL	Dramanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," abstract of presentation given at Cold Spring Harbor Symposium on Genome Mapping and Sequencing, 4/27/88 thru 5/1/88	
	PM	Dulcey et al., "Deep UV Photochemistry of Chemisorbed Monolayers: Patterned Coplanar Molecular Assemblies," <u>Science</u> , 252:551-554 (1991)	
	PN	Duncan et al., "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides," <u>Analytical Biochemistry</u> , 169:104-108 (1988)	
	AAF	Dunn et al., "Mapping Viral RNAs by Sandwich Hybridization," <u>Methods in Enzymology</u> , 65: 468-478 (1980).	
	AAG	Dyson, <u>Immobilization of Nucleic Acids and Hybridization Analysis, in Essential Molecular Biology Volume II: A Practical Approach</u> , edited by T.A. Brown, Chapter 5, pp. 111-156 (1991).	
	PO	Effenhauser et al., "Glass Chips for High-speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <u>Anal. Chem.</u> , 65:2637-2642 (1993)	
	PP	Effenhauser et al., "High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> , 66:2949-2953 (1994)	
	PQ	Ekins et al., "High Specific Activity Chemiluminescent and Fluorescent Markers: their Potential Application to High Sensitivity and 'Multi-analyte' Immunoassays," <u>J. Bioluminescence Chemiluminescence</u> , 4:59-78 (1989)	
	PR	Ekins et al., "Development of Microspot Multi-Analyte Ratiometric Immunoassay Using dual Fluorescent-Labelled Antibodies," <u>Anal. Chimica Acta</u> , 227:73-96 (1989)	
	PS	Ekins et al., "Multianalyte Microspot Immunoassay-Microanalytical 'Compact Disk' of the Future," <u>Clin. Chem.</u> , 37(11):1955-1967 (1991)	
	PT	Ekins, R.P., "Multi-Analyte immunoassay*," <u>J. Pharmaceut. Biomedical Analysis</u> , 7(2):155-168 (1989)	
	PU	Ekins et al., "Fluorescence Spectroscopy and its Application to a New Generation of High Sensitivity, Multi-Microspot, Multianalyte, Immunoassay," <u>Clin. Chim. Acta</u> , 194:91-114 (1990)	
	PV	Elder, J.K., "Analysis of DNA Oligonucleotide Hybridization Data by Maximum Entropy," in <u>Maximum Entropy and Bayesian Methods</u> , eds. Mohammad-Djafari and Demoment, Kluwer, Dordrecht, pp. 363-371 (1992).	

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**INFORMATION DISCLOSURE  
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Sheet **19** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

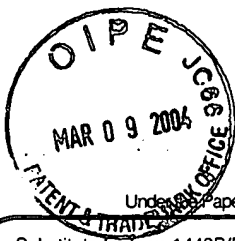
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	PW	Ellis, R.W., "The Applications of Synthetic Oligonucleotides to Molecular Biology," <u>Pharmaceutical Research</u> , 3(4):195-207 (1986).	
	PX	Evans et al., "Microfabrication for Automation of Molecular processes in Human Genome Analysis," <u>Clin. Chem.</u> , 41(11):1681 (1995)	
	PY	Evans et al., "Physical mapping of complex genomes by cosmid multiplex analysis," <u>PNAS</u> , 86:5030-5034 (1989)	
	PZ	Ezaki et al., "Small-Scale DNA Preparation for Rapid Genetic Identification of <i>Campylobacter</i> Species without Radioisotope," <u>Microbiol. Immunology</u> , 32(2):141-150 (1988)	
	QA	Fan et al., "Mapping small DNA sequences by fluorescence <i>in situ</i> hybridization directly on banded metaphase chromosomes," <u>PNAS</u> , 87(16):6223-6227 (1990)	
	QB	Fan et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> , 66:177-184 (1994)	
	QC	Feinberg et al., ADDENDUM to "A technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity," <u>Anal. Biochem.</u> , 137:266-267 (1984).	
	QD	Fettinger et al., "Stacked modules for micro flow systems in chemical analysis: concept and studies using an enlarged model," <u>Sensors and Actuators</u> , B17:19-25 (1993)	
	QE	Flanders et al., "A new interferometric alignment technique," <u>App. Phys. Ltrs.</u> , 31(7):426-429 (1977)	
	QF	Fodor et al., "Multiplexed biochemical assays with biological chips," <u>Nature</u> , 364:555-556 (1993)	
	QG	Fodor et al., "Light-directed, Spatially Addressable Parallel Chemical Synthesis," <u>Science</u> , 251:767-773 (1991)	
	QH	Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Arrays," chapter 13pgs. 206-228 from <i>Molecular Modeling of Nucleic Acids</i> , ACS Symposium Series 682, 4/13-17/97, Leontis et al., eds.	
	QI	Frank et al., "Simultaneous Multiple Peptide Synthesis Under Continuous flow Conditions on Cellulose Paper Discs as Segmental Solid Supports," <u>Tetrahedron</u> , 44(19):6031-6040 (1988)	
	QJ	Frank et al., "Automation of DNA Sequencing Reactions and Related Techniques: A Workstation for Micromanipulation of Liquids," <u>Bio/Technology</u> , 6:1211-1212 (1988)	

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**INFORMATION DISCLOSURE  
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Sheet 20 of 38

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Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

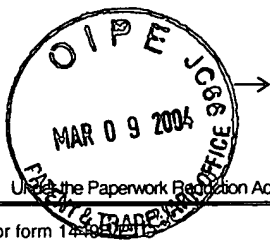
**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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	QK	Frank et al., "Simultaneous Synthesis and Biological Applications of DNA Fragments: An Efficient and Complete Methodology," <u>Methods in Enzymology</u> , 154:221-250 (1987)	
	QL	Frank et al., "Facile and rapid 'spot-synthesis' of large numbers of peptides on membrane sheets," <u>Proc. 21st European Pept. Symp.</u> , Platja D'Oro, Spain, 9/2-8/90.	
	QM	Fuhr et al., "Travelling wave-driven microfabricated electrohydrodynamic pumps for liquids," <u>J. Micromech. Microeng.</u> , 4:217-226 (1994)	
	QN	Fuller et al., "Urethane-Protected Amino Acid N-Carboxy Anhydrides and Their Use in Peptide Synthesis," <u>J. Amer. Chem. Soc.</u> , 112(20):7414-7416 (1990)	
	QO	Furka et al., "General method for rapid synthesis of multicomponent peptide mixtures," <u>Int. J. Peptide Protein Res.</u> , 37:487-493 (1991)	
	QP	Furka et al., "Cornucopia of Peptides by Synthesis," 14th Int. Congress of Biochem. abst.# FR:013, 7/10-15/88 Prague, Czechoslovakia	
	QQ	Furka et al., "More Peptides by Less Labour," abst. 288, Int. Symp. Med. Chem., Budapest Hungary 8/15-19/88	
	QR	Gait, eds., pages 1-115 from <u>Oligonucleotide Synthesis: A Practical Approach</u> , IRL Press, (1984)	
	QS	Gazard et al., "Lithographic Technique Using Radiation-Induced Grafting of Acrylic Acid into Poly(Methyl Methacrylate) Films," <u>Polymer Engineering and Science</u> , 20(16):1069-1072 (1980)	
	QT	Gergen et al., "Filter replicas and permanent collections of recombinant DNA plasmids," <u>Nuc. Acids Res.</u> , 7(8):2115-2137 (1979)	
	QU	Getzoff et al., "Mechanisms of Antibody Binding to a Protein," <u>Science</u> , 235:1191-1196 (1987)	
	QV	Geysen et al., "Strategies for epitope analysis using peptide synthesis," <u>J. Immunol. Meth.</u> , 102:259-274 (1987)	
	QW	Geysen et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <u>PNAS</u> , 81:3998-4002 (1984)	
	QX	Geysen et al., "A synthetic strategy for epitope mapping," from <u>Peptides: Chem. &amp; Biol.</u> , Proc. of 10th Am. Peptide Symp., 5/23-28/87, pp. 519-523, (1987)	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **21** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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	QY	Geysen, "Antigen-antibody interactions at the molecular level: adventures in peptide synthesis," <u>Immunol. Today</u> , 6(12):364-369 (1985)	
	QZ	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," from Synthetic Peptides: Approaches to Biological Probes, pp. 19-30, (1989)	
	RA	Geysen et al., "Chemistry of Antibody Binding to a Protein," <u>Science</u> , 235:1184-1190 (1987)	
	RB	Geysen et al., "The delineation of peptides able to mimic assembled epitopes," 1986 CIBA Symp., pp. 130-149	
	RC	Geysen et al., "Cognitive Features of Continuous Antigenic Determinants," <u>Mol. Recognit.</u> , 1(1):1-10 (1988)	
	RD	Geysen et al., "A Prio Ri Delineation of a Peptide Which Mimics A Discontinuous Antigenic Determinant," <u>Mol. Immunol.</u> , 23(7):709-715 (1986)	
	RE	Ghosh et al., "Covalent attachment of oligonucleotides to solid supports," <u>Nuc. Acids Res.</u> , 15(13):5353-5373 (1987).	
	RF	Gilon et al., "Backbone Cyclization: A New Method for Conferring Conformational Constraint on Peptides," <u>Biopolymers</u> , 31(6):745-750 (1991)	
	RG	Gingeras et al., "Hybridization properties of immobilized nucleic acids," <u>Nuc. Acids Res.</u> , 15(13):5373-5390 (87)	
	RH	Gummerlock et al., "RAS Enzyme-Linked Immunoblot Assay Discriminates p21 Species: A Technique to Dissect Gene Family Expression," <u>Anal. Biochem.</u> , 180:158-168 (1989)	
	RI	Gurney et al., "Activation of a potassium current by rapid photochemically generated step increases of intracellular calcium in rat sympathetic neurons," <u>PNAS</u> , 84:3496-3500 (1987)	
	RJ	Haase et al., "Detection of Two Viral Genomes in Single Cells by Double-Label Hybridization in Situ and Color Microradioautography," <u>Science</u> , 227:189-192 (1985)	
	RK	Hacia, et al., "Two color hybridization analysis using high density oligonucleotide arrays and energy transfer dyes," <u>Nuc. Acids Res.</u> , 26(16):3865-3866 (1998)	
	RL	Hack, M.L., "Conics Formed to Make Fluid & Industrial Gas Micromachines," <u>Genetic Engineering News</u> , 15(18):1, 29 (1995)	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet **22** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
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	RM	Hagedorn et al., "Pumping of Water Solutions in Microfabricated Electrohydrodynamic Systems," from Micro Electro Mechanical Systems conference in Travemunde Germany (1992)	
	RN	Hames et al., <i>Nuclear acid hybridization, a practical approach</i> , cover page and table of contents (1985)	
	RO	Hanahan et al., "Plasmid Screening at High Colony Density," <i>Meth. Enzymology</i> , 100:333-342 (1983)	
	RP	Hanahan et al., "Plasmid screening at high colony density," <i>Gene</i> , 10:63-67 (1980)	
	RQ	Haridasan et al., "Peptide Synthesis using Photolytically Cleavable 2-Nitrobenzyloxycarbonyl Protecting Group," <i>Proc. Indian Natn. Sci. Acad.</i> , 53A(6):717-728 (1987)	
	RR	Harrison et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <i>Anal. Chem.</i> , 64:1926-1932 (1992)	
	RS	Harrison et al., "Micromachining a Minaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <i>Science</i> , 261:895-897 (1993)	
	RT	Harrison et al., "Towards minaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors*," <i>Sensors and Actuators</i> , B10:107-116 (1993)	
	RU	Harrison et al., "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system," <i>Analytica Chimica Acta</i> , 283:361-366 (1993)	
	RV	Hellberg et al., "Minimum analogue peptide sets (MAPS) for quantitative structure-activity relationships," <i>Int. J. Peptide Protein Res.</i> , 37:414-424 (1991)	
	RW	Hilser et al., "Protein and peptide mobility in capillary zone electrophoresis, A comparison of existing models and further analysis," <i>J. Chromatography</i> , 630:329-336 (1993)	
	RX	Ho et al., "Highly Stable Biosensor Using an Artificial Enzyme," <i>Anal. Chem.</i> , 59:536-537 (1987)	
	RY	Hochgeschwender et al., "Preferential expression of a defined T-cell receptor $\beta$ -chain gene in hapten-specific cytotoxic T-cell clones," <i>Nature</i> , 322:376-378 (1986)	
	RZ	Hodgson, J., "Assays A La Photolithography," <i>Biotech.</i> , 9:419 (1991)	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet **23** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

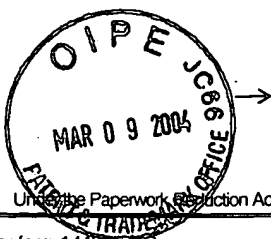
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	SA	Hodgson et al., "Hybridization probe size control: optimized 'oligolabelling'," <u>Nuc.Acids Res.</u> , 15(15):6295 (1987).	
	SB	Hoheisel, J.D., "Oligomer-chip technology," <u>Tribtech</u> , 15:465-469 (1997).	
	SC	Hopman et al., "Bi-color detection of two target DNAs by non-radioactive in situ hybridization*," <u>Histochem.</u> , 85:1-4 (1986)	
	SD	Iwamura et al., "1-Pyrenylmethyl Esters, Photolabile Protecting Groups for Carboxylic Acids," <u>Tetrahedron Ltrs.</u> , 28(6):679-682 (1987)	
	SE	Iwamura et al., "1-( $\alpha$ -Diazobenzyl)pyrene: A Reagent for Photolabile and Fluorescent Protection of Carboxyl Groups of Amino Acids and Peptides," <u>Synlett</u> , p. 35-36 (1991)	
	SF	Jacobson et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> , 66:1107-1113 (1994)	
	SG	Jacobsen et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. chem.</u> , 66:2369-2373 (1994)	
	SH	Jacobson et al., "Microchip Capillary Electrophoresis with an Integrated Postcolumn Reactor" <u>Anal. Chem.</u> , 66:3472-3476 (1994)	
	SI	Jacobson et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> , 66:4127-4132 (1994)	
	SJ	Jacobson et al., "Microfabricated chemical measurement systems," <u>Nature Medicine</u> , 1(10):1093-1096 (1995)	
	SK	Jacobsen et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. chem.</u> , 67:2059-2063 (1995)	
	SL	Jacobson et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> , 66:1114-1118 (1994)	
	SM	Jacobson et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> , 16:481-486 (1995)	
	SN	Jayakumari, "Peptide synthesis in a triphasic medium catalysed by papain immobilized on a crosslinked polystyrene support," <u>Indian J. Chemistry</u> , 29B:514-517 (1990)	

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Sheet **24** of **38**

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Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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	AAH	Jonsson et al., "Surface Immobilization Techniques in Combination with Ellipsometry," <u>Methods in Enzymology</u> , 137:381-388 (1988).	
	SO	Jovin et al., "Luminescence Digital Imaging Microscopy," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:271-308 (1989).	
	SP	Kafatos et al., "Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure," <u>Nuc. Acids Res.</u> , 7(6):1541-1553 (1979).	
	SQ	Kaiser et al., "Peptide and Protein Synthesis by Segment Synthesis-Condensation," <u>Science</u> , 243:187-192 (1989)	
	SR	Kaplan et al., "Photolabile chelators for the rapid photorelease of divalent cations," <u>PNAS</u> , 85:6571-6575 (1988)	
	SS	Karube, "Micro-biosensors based on silicon fabrication technology," chapter 25 from <u>Biosensors: Fundamentals and Applications</u> , Turner et al., eds., Oxford Publ., 1987, pgs. 471-480 (1987)	
	ST	Kates et al., "A Novel, Convenient, Three-dimensional Orthogonal Strategy for Solid-Phase Synthesis of Cyclic Peptides 1-3," <u>Tetrahed. Letters</u> , 34(10):1549-1552 (1993)	
	SU	Kerkof et al., "A Procedure for Making Simultaneous Determinations of the Relative Levels of Gene Transcripts in Tissues or Cells," <u>Anal. Biochem.</u> , 188:349-355 (1990)	
	AAI	Kessler, <u>Nonradioactive Labeling Methods for Nucleic Acids</u> , in <u>Nonisotopic DNA Probe Techniques</u> , edited by Larry Kricka, Chapter 2, pp. 29-91 (1991).	
	SV	Khrapko et al., "An Oligonucleotide hybridization approach to DNA sequencing," <u>FEBS Lett.</u> , 256(1,2):118-122 (1989)	
	SW	Khrapko et al., "A method for DNA sequencing by hybridization with oligonucleotide matrix," <u>DNA Seq. Map.</u> , 1:375-388 (1991).	
	SX	Kidd et al., " $\alpha_1$ -Antitrypsin deficiency detection by direct analysis of the mutation in the gene," <u>Nature</u> , 304:230-234 (1983).	
	SY	Kievits et al., "Rapid subchromosomal localization of cosmids by nonradioactive in situ hybridization," <u>Cytogenetics Cell Genetics</u> , 53(2-3):134-136 (1990)	
	SZ	Kimura et al., "An Immobilized Enzyme Membrane Fabrication Method using an Ink Jet Nozzle," <u>Biosensors</u> , 4:41-52 (1988)	

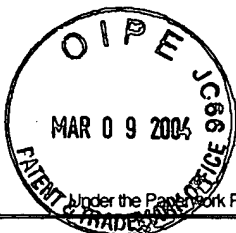
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Sheet **25** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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	TA	Kimura et al., "An Integrated SOS/FET Multi-Biosensor," <u>Sensors &amp; Actuators</u> , 9:373-387 (1986)	
	TB	Kitazawa et al., "In situ DNA-RNA hybridization using in vivo bromodeoxyuridine-labeled DNA probe," <u>Histochemistry</u> , 92:195-199 (1989)	
	TC	Kleinfeld et al., "Controlled Outgrowth of Dissociated Neurons on Patterned Substrates," <u>J. Neurosci.</u> , 8(11):4098-4120 (1988)	
	TD	Knight, P., "Materials and Methods/Microsequencers for Proteins and Oligosaccharides," <u>BioTech.</u> , 7:1075-76 (1989)	
	TE	Kohara et al., "The Physical Map of the Whole E. coli Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a Large Genomic Library," <u>Cell</u> , 50:495-508 (1987)	
	TF	Krile et al., "Multiplex holography with chirp-modulated binary phase-coded reference-beam masks," <u>Applied Opt.</u> , 18(1):52-56 (1979)	
	TG	Labat, I., "Subfragments as an informative characteristic of the DNA molecule – computer simulation," research report submitted to the University of Belgrade College of Natural Sciences and Mathematics, (1988)	
	TH	Lainer et al., "Human Lymphocyte Subpopulations Identified by Using Three-Color Immunofluorescence and Flow Cytometry Analysis: Correlation of Leu-2, Leu-3, Leu-7, Leu-8, and Leu-11 Clee Surface Antigen Expression," <u>Journal of Immunology</u> , 132(1):151-156 (1984)	
	TI	Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <u>Nature</u> , 354:82-84 (1991)	
	TJ	Lander et al., "Genomic Mapping by Fingerprinting Random Clones: A Mathematical Analysis," <u>Genomics</u> , 2:231-239 (1988).	
	TK	Laskey et al., "Messenger RNA prevalence in sea urchin embryos measured with cloned cDNAs," <u>PNAS</u> , 77(9):5317-5321 (1980)	
	TL	Lee et al., "synthesis of a Polymer Surface Containing Covalently Attached Triethoxysilane Functionality: Adhesion to Glass," <u>Macromolecules</u> , 21:3353-3356 (1988)	
	TM	Lehrach et al., "Labelling oligonucleotides to high specific activity (I)," <u>Nuc. Acids Res.</u> , 17(12):4605-4610 (89)	
	TN	Lehrach et al., "Phage Vectors – EMBL Series," <u>Meth. Enzymology</u> , 153:103-115 (1987)	

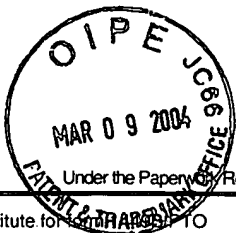
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Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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	TO	Lehrach et al., "Hybridization Fingerprinting in Genome Mapping and Sequencing," <u>Genome Analysis Volume 1: Genetic and Physical Mapping</u> , Cold Spring Harbor Laboratory Press, pages 39-81 (1990).	
	TP	Levy, M.F., "Preparing Additive Printed Circuits," <u>IBM Tech. Discl. Bull.</u> , 9(11):1473 (1967)	
	TQ	Lewin, Benjamin, eds., <u>Genes</u> , third edition, John Wiley & Sons, cover page, preface and table of contents, (1987).	
	TR	Lichter et al., "High-Resolution Mapping of Human Chromosome 11 by in Situ hybridization with Cosmid Clones," <u>Science</u> , 247:64-69 (1990)	
	TS	Lichter et al., "Fluorescence <i>in situ</i> hybridization with <i>Alu</i> and L1 polymerase chain reaction probes for rapid characterization of human chromosomes in hybrid cell lines," <u>PNAS</u> , 87:6634-6638 (1990)	
	TT	Lichter et al., "Rapid detection of human chromosome 21 aberrations by <i>in situ</i> hybridization," <u>PNAS</u> , 85:9664-9668 (1988)	
	TU	Lichter et al., "Is non-isotopic <i>in situ</i> hybridization finally coming of age," <u>Nature</u> , 345:93-94 (1990)	
	TV	Lieberman et al., "A Light source Smaller Than the Optical Wavelength," <u>Science</u> , 247:59-61 (1990)	
	TW	Lipshutz et al., "Using Oligonucleotide Probe Arrays To Access Genetic Diversity," <u>BioTech.</u> , 19(3):442-7 (1995)	
	TX	Little, P., "Clone maps made simple," <u>Nature</u> , 346:611-612 (1990).	
	TY	Liu et al., "Sequential Injection Analysis in Capillary Format with an Electroosmotic Pump," <u>Talanta</u> , 41(11):1903-1910 (1994)	
	TZ	Lockhart et al., "Expression monitoring by hybridization to high-density oligonucleotide arrays," <u>Nat. Biotech.</u> , 14:1675-1680 (1996)	
	UA	Logue et al., "General Approaches to Mask Design for Binary Optics," <u>SPIE</u> , 1052:19-24 (1989)	
	UB	Loken et al., "three-color Immunofluorescence Analysis of Leu Antigens on Human Peripheral Blood Using Two Lasers on a Fluorescence-Activated Cell Sorter," <u>Cytoetry</u> , 5:151-158 (1984)	

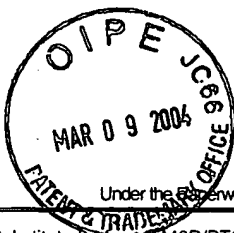
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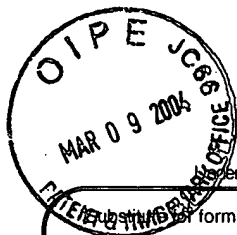
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	UC	Love et al., "Screening of $\lambda$ Library for Differentially Expressed Genes Using <i>in Vitro</i> Transcripts," <u>Anal. Biochem.</u> , 150:429-441 (1985)	
	UD	Lowe, C.R., "Biosensors," <u>Trends in Biotech.</u> , 2:59-65 (1984)	
	UE	Lowe, C.R., "An Introduction to the Concepts and Technology of Biosensors," <u>Biosensors</u> , 1:3-16 (1985)	
	UF	Lowe, C. R., Biotechnology and Crop Improvement and Protection, BCPC Publications, pp. 131-138 (1986)	
	UG	Lowe et al., "Solid-Phase Optoelectronic Biosensors," <u>Methods in Enzymology</u> , 137:338-347 (1988)	
	UH	Lowe, C.R., "Biosensors," <u>Phil. Tran. R. Soc. Lond.</u> , 324:487-496 (1989)	
	UI	Lu et al., "Differential screening of murine ascites cDNA libraries by means of <i>in vitro</i> transcripts of cell-cycle-phase-specific cDNA and digital image processing," <u>Gene</u> , 86:185-192 (1990)	
	UJ	Luo, J. et al., "Improving the fidelity of <i>Thermus thermophilus</i> DNA ligase," <u>Nuc. Acids Res.</u> , 24(14):3071-3078 (1996).	
	UK	Lysov et al., "A new method for determining the DNA nucleotide sequence by hybridization with oligonucleotides," <u>Doklady Biochem.</u> , 303(1-6):436-438 (1989)	
	UL	Lysov et al., "DNA Sequencing by Oligonucleotide Hybridization," First International Conference on Electrophoresis, Supercomputing and the Human Genome, 4/10-13/90 p.157	
	UM	MacDonald et al., "A Rapid ELISA for Measuring Insulin in a Large Number of Research Samples," <u>Metabolism</u> , 38(5):450-452 (1989)	
	UN	Mairanovsky, V.G., "Electro-Deprotection- Electrochemical Removal of Protecting Groups**," <u>Agnew. Chem. Int. Ed. Engl.</u> , 15(5):281-292 (1976)	
	AAJ	Maniatis et al., <u>Molecular Cloning A Laboratory Manual</u> , pp. 313-315 and 326-328 (1982).	
	UO	Manz et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> , B1:244-248 (1990)	

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				Application Number	10/014,716
				Filing Date	December 14, 2001
				First Named Inventor	Fodor
				Art Unit	1627
				Examiner Name	Ponnaluri, P.
Sheet	28	of	38	Attorney Docket Number	018547-048200US

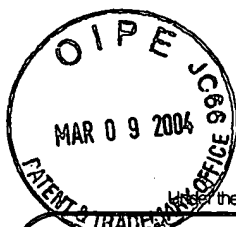
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	UP	Manz et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems, A look into next century's technology or just a fashionable craze?," <u>Trends in Analytical Chem.</u> , 10(5):144-149 (1991)		
	UQ	Manz et al., "Planar chips technology for miniaturization and integration of separation techniques into monitoring systems, Capillary electrophoresis on a chip," <u>J. Chromatography</u> , 593:253-258 (1992)		
	UR	Manz et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring," chapter 1, 1-64 (1993)		
	US	Manz et al., "Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:257-265 (1994)		
	UT	Masiakowski et al., "Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line," <u>Nuc. Acids Res.</u> , 10(24):7895-7903 (1982)		
	AAK	Maskos et al., "Parallel analysis of oligodeoxyribonucleotide (oligonucleotide) interactions, I. Analysis of factors influencing oligonucleotide duplex formation, <u>Nucleic Acids Research</u> , Vol. 20, No. 7 1675-1678 (1992).		
	UU	Matsumoto et al., "Preliminary Investigation of Micropumping Based on Electrical Control of Interfacial Tension," <u>IEEE</u> , pgs. 105-110 (1990)		
	UV	Matsuzawa et al., "Containment and growth of neuroblastoma cells on chemically patterned substrates," <u>J. Neurosci. Meth.</u> , 50:253-260 (1993)		
	AAL	Matteucci et al., Synthesis of Deoxyoligonucleotides on a Polymer Support," <u>J. Am. Chem. Soc.</u> , 103:3185-91 (1981).		
	UW	Matthes et al., "Simultaneous rapid chemical synthesis of over one hundred oligonucleotides on a microscale," <u>EMBO J.</u> , 3(4):801-805 (1984).		
	UX	McCray et al., "Properties and Uses of Photoreactive Caged Compounds," <u>Ann. Rev. Biophys. Biophys. Chem.</u> , 18:239-270 (1989)		
	UY	McGall et al., "The Efficiency of Light-Directed Synthesis of DNA Arrays on Glass Substrates," <u>J. American Chem. Soc.</u> , 119(22):5081-5090 (1997)		
	UZ	McGillis, VLSI Technology, Sze, eds., Chapter 7, "Lithography," pp. 267-301 (1983)		
	VA	McMurray, J.S., "Solid Phase Synthesis of a Cyclic Peptide Using Fmoc Chemistry," <u>Tetrahedron Letters</u> , 32(52):7679-7682 (1991)		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **29** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	VB	Meinkoth et al., "Review: Hybridization of Nucleic Acids Immobilized on solid Supports," <u>Analytical Biochem.</u> , 138:267-284 (1984)	
	VC	Melcher et al., "Traveling-Wave Bulk Electroconvection Induced across a Temperature Gradient," <u>Physics of Fluids</u> , 10(6):1178-1185 (1967)	
	VD	Merrifield, R.B., "Solid Phase peptide Synthesis. I. The Synthesis of a Tetrapeptide," <u>J.Am.Chem.Soc.</u> , 85:2149-2154 (1963)	
	VE	Michiels et al., "Molecular approaches to genome analysis: a strategy for the construction of ordered overlapping clone libraries," <u>CABIOS</u> , 3(3):203-10 (1987)	
	VF	Mirzabekov, A.D., "DNA sequencing by hybridization - a megasequencing method and a diagnostic tool?," <u>TIBTECH</u> , 12:27-32 (1994)	
	VG	Miyada et al., "Oligonucleotide Hybridization Techniques," <u>Meth. Enzymology</u> , 154:94-107 (1987).	
	VH	Monaco et al., "Human Genome Linking with Cosmids and Yeast Artificial Chromosomes", abstract from CSHS, pg. 50, (1989)	
	VI	Morita et al., "Direct pattern fabrication on silicone resin by vapor phase electron beam polymerization," <u>J.Vac.Sci.Technol.</u> , B1(4):1171-1173 (1983)	
	VJ	Morrison et al., "Solution-Phase Detection of Polynucleotides Using Interacting Fluorescent Labels and Competitive Hybridization," <u>Anal. Biochem.</u> , 183:231-244 (1989)	
	VK	Munegumi et al., "thermal Synthesis of Polypeptides from N-Boc-Amino Acid (Aspartic Acid, $\beta$ -Aminoglutaric Acid) Anhydrides," <u>Chem. Letters</u> , pgs. 1643-1646 (1988)	
	VL	Mutter et al., "Impact of Conformation on the Synthetic Strategies for Peptide Sequences," pgs. 217-228 from Chemistry of Peptides and Proteins, Vol. 1, Proceedings of the Third USSR-FRG Symp., in USSR (1982)	
	VM	Nakamori et al., "A Simple and Useful Method for Simultaneous Screening of Elevated Levels of Expression of a Variety of Oncogenes in Malignant Cells," <u>Jpn. J. Cancer Res.</u> , 79:1311-1317 (1988)	
	VN	Nederlof et al., "Multiple Fluorescence In Situ Hybridization," <u>Cytometry</u> , 11:126-131 (1990)	
	VO	Nederlof et al., "Three-Color Fluorescence In Situ Hybridization for the Simultaneous Detection of Multiple Nucleic Acid Sequences," <u>Cytometry</u> , 10:20-27 (1989).	

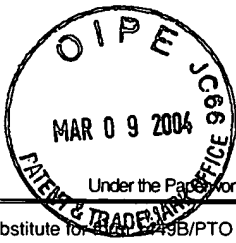
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Sheet **30** of **38**

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Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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	VP	Nizetic et al., "An improved bacterial colony lysis procedure enables direct DNA hybridisation using short (10, 11 bases) oligonucleotides to cosmids," <u>Nuc. Acids Res.</u> , 19(1):182 (1990).	
	VQ	Nizetic et al., "Construction, arraying, and high-density screening of large insert libraries of human chromosomes X and 21: their potential use as reference libraries," <u>PNAS</u> , 88:3233-3237 (1991).	
	VR	Nyborg, W., "Acoustic Streaming," chapter 11 pgs. 265-329 from <u>Physical Acoustics, Principles and Methods</u> , Mason, eds., vol. II, part B, Academic Press, New York and London (1965)	
	VS	Ocvirk et al., "High Performance Liquid Chromatography Partially Integrated onto a Silicon Chip," <u>Analyt. Meth. Instrumentation</u> , 2(2):74-82 (1995)	
	VT	Ohtsuka et al., "Studies on transfer ribonucleic acids and related compounds. IX Ribonucleic oligonucleotide synthesis using a photosensitive 0-nitrobenzyl protection at the 2' -hydroxyl group," <u>Nuc.Acids.Res.</u> , 1(10):1351-1357 (1974)	
	VU	Olefirowicz et al., "Capillary Electrophoresis for Sampling Single Nerve Cells," <u>Chimia</u> , 45(4):106-108 (1991)	
	VV	Olson et al., "Random-clone strategy for genomic restriction mapping in yeast," <u>PNAS</u> , 83:7826-7830 (1986).	
	VW	Patchornik et al., "Photosensitive Protecting Groups," <u>J.Am.Chem.Soc.</u> , 92(21):6333-6335 (1970)	
	VX	Patent Abstracts of Japan from EPO, Abst. 13:557, JP 1-233 447 (1989)	
	VY	Pease et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis," <u>PNAS</u> , 91:5022-26 (1994)	
	VZ	Pevzner, P.A., "DNA Physical Mapping and Alternating Eulerian Cycles in Colored Graphs," <u>Algorithmica</u> , 13(1-2):77-105 (1995).	
	WA	Pevzner et al., "Multiple Filtration and Approximate Pattern Matching," <u>Algorithmica</u> , 13(1-2):135-154 (1995).	
	WB	Pevzner et al., "Generalized Sequence Alignment and Duality," <u>Adv. Applied Math.</u> , 14:139-171 (1993).	
	WC	Pevzner, P.A., "1-Tuple DNA Sequencing: Computer Analysis," <u>J. Biomol. Struct. Dynam.</u> , 7(1):63-69 (1989)	

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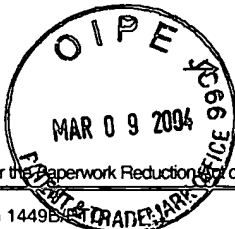
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	WD	Pfahler et al., "Liquid Transport in Micron and Submicron Channels," <u>Sensors and Actuators</u> , A21-A23:431-4 (90)	
	WE	Pfeifer et al., "Genomic Sequencing and Methylation Analysis by Ligation Mediated PCR," <u>Science</u> , 246:810-813 (1989).	
	WF	Pidgeon et al., "Immobilized Artificial Membrane Chromatography: Supports Composed of Membrane Lipids," <u>Anal. Biochem.</u> , 176:36-47 (89)	
	WG	Pillai, V.N., "Photoremovable Protecting Groups in Organic Synthesis," <u>Synthesis</u> , pgs. 1-26 (1980)	
	WH	Pillai et al., "3-Nitro-4-Aminomethylbenzoylderivate von Polyethylenglykolen: Eine neue Klasse von Photosensitiven loslichen Polymeren Trägern zur Synthese von C-terminalen Peptidamiden," <u>Tetrah. Ltr.</u> , # 36 p. 3409-3412 (1979)	
	WI	Pillai et al., "Synthetic Hydrophilic Polymers, Biomedical and Chemical Applications," <u>Naturwissenschaften</u> , 68:558-566 (1981)	
	WJ	Pirrung et al., "Proofing of Photolithographic DNA Synthesis with 3'-5'-Dimethoxybenzoinyloxycarbonyl-Protected Deoxynucleoside Phosphoramidites," <u>J. Org. Chem.</u> , 63(2):241-246 (1998)	
	WK	Pirrung et al., "Comparison of Methods for Photochemical Phosphoramidite-Based DNA Synthesis," <u>J. Org. Chem.</u> , 60:6270-6276 (1995)	
	WL	Ploax et al., "Cyclization of peptides on a solid support," <u>Int. J. Peptide Protein Research</u> , 29:162-169 (1987)	
	WM	Polsky-Cynkin et al., "Use of DNA Immobilized on Plastic and Agarose Supports to Detect DNA by Sandwich Hybridization," <u>Clin. Chem.</u> , 31(9):1428-1443 (1985)	
	WN	Poustka et al., "Molecular Approaches to Mammalian Genetics," Cold Spring Harbor Symposia on Quantitative Biology, 51:131-139 (1986)	
	WO	Purushothaman et al., "Synthesis of 4,5-diarylimidazole-2-thiones and their photoconversion to bis(4,5-diarylimidazol-2-yl) sulphides," <u>Ind. J. Chem.</u> , 29B:18-21 (1990)	
	WP	Quesada et al., "High-Sensitivity DNA Detection with a Laser-Excited Confocal Fluorescence Gel Scanner," <u>Biotechniques</u> , 10:616 (1991)	
	WQ	Reichmanis et al., "o-Nitrobenzyl Photochemistry: Solution vs. Solid-State Behaviour," <u>J. Polymer Sci. Polymer Chem. Edition</u> , 23:1-8 (1985)	

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Sheet 32 of 38**Complete if Known**

Application Number	10/014,716
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First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

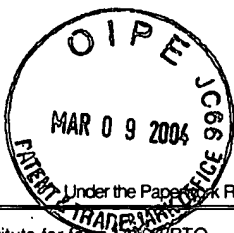
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	AAM	Rentrop et al., "Aminoalkylsilane-treated glass slides as support of in situ hybridization of keratin cDNAs to frozen tissue sections under varying fixation and pretreatment conditions," <u>Histochemical Journal</u> , 18:271-276 (1986).	
	WR	Renz et al., "A colorimetric method for DNA hybridization," <u>Nuc. Acids Res.</u> , 12(8):3435-3445 (1984).	
	WS	Richter et al., "An Electrohydrodynamic Micropump," <u>IEEE</u> , pgs. 99-104 (1990)	
	WT	Richter et al., "Electrohydrodynamic Pumping and Flow Measurement," <u>IEEE</u> , pgs. 271-276 (1991)	
	WU	Richter et al., "A Micromachined electrohydrodynamic (EHD) pump," <u>Sensors and Actuators</u> , A29:159-168 (91)	
	WV	Robertson et al., "A General and Efficient Route for Chemical Aminoacylation of Transfer RNAs," <u>J. Am. Chem. Soc.</u> , 113:2722-2729 (1991).	
	WW	Rodda et al., "The Antibody Response to Myoglobin-I. Systematic Synthesis of Myoglobin Peptides Reveals Location and Substructure of Species-Dependent Continuous Antigenic Determinants," <u>Mol. Immunol.</u> , 23(6):603-610 (1986)	
	WX	Rodgers, R.P., "Data Processing of Immunoassay Results," <u>Manual of Clin. Lab. Immunol.</u> , 3rd ed., ch. 15, pgs. 82-87 (1986)	
	WY	Rose, D.J., "Free-solution reactor for post-column fluorescence detection in capillary zone electrophoresis," <u>J. Chromatography</u> , 540:343-353 (1991)	
	WZ	Rovero et al., "Synthesis of Cyclic Peptides on solid Support," <u>Tetrahed. Letters</u> , 32(23):2639-2642 (1991)	
	XA	Sambrook, <u>Molecular Cloning – A Laboratory Manual</u> , publ. in 1989 (not included)	
	XB	Saiki et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes," <u>PNAS</u> , 86:6230-6234 (1989)	
	XC	Saiki et al., "Analysis of enzymatically amplified $\beta$ -globin and HLA-DQ $\alpha$ DNA with Allele-specific oligonucleotide probes," <u>Nature</u> , 324:163-166 (1986)	
	XD	Schafer et al., "DNA fingerprinting using non-radioactive oligonucleotide probes specific for simple repeats," <u>Nuc. Acids Res.</u> , 16(19):9344 (1988).	

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	XE	Scharf et al., "HLA class II allelic variation and susceptibility to pemphigus vulgaris," <u>PNAS</u> , 85(10):3504-3508 (1988)	
	XF	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <u>PNAS</u> , 93:10614-10619 (1996).	
	XG	Schuup et al., "Mechanistic Studies of the Photorearrangement of o-Nitrobenzyl Esters," <u>J. Photochem.</u> , 36:85-97 (1987)	
	XH	Seed, B., "Diazotizable arylamine cellulose papers for the coupling and hybridization of nucleic acids," <u>Nuc. Acids Res.</u> , 10(5):1799-1810 (1982).	
	XI	Seiler et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> , 65:1481-1488 (1993)	
	XJ	Seller et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> , 66:3485-3491 (1994)	
	XK	Semmelhack et al., "Selective Removal of Protecting Groups Using Controlled Potential Electrolysis," <u>J. Am. Chem. Society</u> , 94(14):5139-5140 (1972)	
	XL	Sheldon et al., "Matrix DNA Hybridization," <u>Clinical Chemistry</u> , 39(4):718-719 (1993)	
	XM	Shin et al., "Dehydrooligonopeptides. XI. Facile Synthesis of Various Kinds of Dehydrodi- and tripeptides, and Dehydroenkephalins Containing Tyr Residue by Using N-Carboxydehydrotyrosine Anhydride," <u>Bull. Chem. Soc. Jpn.</u> , 62:1127-1135 (1989)	
	XN	Sim et al., "Use of a cDNA Library for Studies on Evolution and Developmental Expression of the Chorion Multigene Families," <u>Cell</u> , 18:1303-1316 (1979)	
	XO	Smith et al., "A Novel Method for Delineating Antigenic Determinants: Peptide Synthesis and Radioimmunoassay Using the Same Solid Support," <u>Immunochemistry</u> , 14:565-568 (1977)	
	XP	Sofia, M.J., "Carbohydrate-based combinatorial libraries," <u>Molecular Diversity</u> , 3:75-94 (1998).	
	XQ	Southern et al., "Report on the Sequencing by Hybridization Workshop," <u>Genomics</u> , 13:1378-1383 (1992)	
	XR	Southern et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridization properties of oligonucleotides synthesized <i>in situ</i> ," <u>Nuc. Acids Res.</u> , 20(7):1679-1684 (1992)	

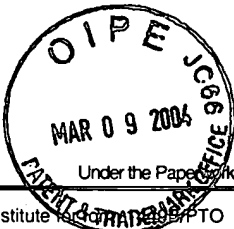
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	XS	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," <u>Genomics</u> , 13:1008-10017 (1992).	
	XT	Southern, E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis," <u>J. Mol. Biol.</u> , 98:503-517 (1975).	
	XU	Southern et al., "Parallel synthesis and analysis of large numbers of related chemical compounds: applications to oligonucleotides," <u>J. Biotechnology</u> , 35:217-227 (1994).	
	XV	Stemme et al., "A valveless diffuser/nozzle-based fluid pump," <u>Sensors and Actuators</u> , A39:159-167 (1993)	
	XW	Stryer, L., "DNA Probes and Genes Can be Synthesized by Automated Solid-Phase Methods," from <u>Biochemistry</u> , Third Edition, published by W.H. Freeman & Co., (1988)	
	XX	Stuber et al., "Synthesis and photolytic cleavage of bovine insulin B22-30 on a nitrobenzoylglycyl-poly (ethylene glycol) support," <u>Int. J. Peptide Protein Res.</u> , 22(3):277-283 (1984)	
	XY	Sundberg et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," <u>J. Am. Chem. Soc.</u> , 117(49):12050-12057 (1995)	
	XZ	Swedberg, S.A., "Use of non-ionic and zwitterionic surfactants to enhance selectivity in high-performance capillary electrophoresis. An apparent micellar electrokinetic capillary chromatography mechanism," <u>J. Chromatography</u> , 503:449-452 (1990)	
	YA	Thomas, P.S., "Hybridization of denatured RNA and small DNA fragments transferred to nitrocellulose," <u>PNAS</u> , 77(9):5201-5205 (1980).	
	YB	Titus et al., "Texas Red, a Hydrophilic, red-emitting fluorophore for use with fluorescein in dual parameter flow microfluorometric and fluorescence microscopic studies," <u>J. Immunol. Meth.</u> , 50:193-204 (1982)	
	YC	Tkachuk et al., "Detection of <i>bcr-abl</i> Fusion in chronic Myelogenous Leukemia by in situ Hybridization," <u>Science</u> , 250:559-562 (90)	
	YD	Trzeciak et al., "Synthesis of 'Head-to-Tail' Cyclized Peptides on Solid Support by Fmoc Chemistry," <u>Tetrahed. Letters</u> , 33(32):4557-4560 (1992)	
	YE	Tsien et al., "Control of Cytoplasmic Calcium with Photolabile Tetracarboxylate 2-Nitrobenzhydryl Chelators," <u>Biophys. J.</u> , 50:843-853 (1986)	
	YF	Tsutsumi et al., "Expression of L- and M- Type Pyruvate Kinase in Human Tissues," <u>Genomics</u> , 2:86-89 (1988)	

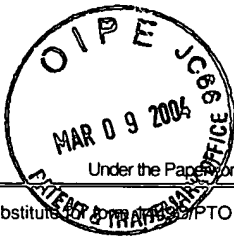
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	YG	Turchinskii et al., "Multiple Hybridization in Genome Analysis, Reaction of Diamines and Bisulfate with Cytosine for Introduction of Nonradioactive labels Into DNA," <u>Molecular Biology</u> , 22:1229-1235 (1988)	
	YH	Turner et al., "Photochemical Activation of Acylated $\alpha$ -Thrombin," <u>J. Am. Chem. Soc.</u> , 109:1274-1275 (1987)	
	YI	Urdea et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum," <u>Gene</u> , 61:253-264 (1987)	
	YJ	Urdea et al., "A comparison of non-radioisotopic hybridization assay methods using fluorescent, chemiluminescent and enzyme labeled synthetic oligodeoxyribonucleotide probes," <u>Nuc. Acids Res.</u> , 16(11):4937-4956 (1988)	
	YK	Van der Voort et al., "Design and Use of a Computer Controlled Confocal Microscope for Biological Applications," <u>Scanning</u> , 7(2):66-78 (1985)	
	YL	Van Hijfte et al., "Intramolecular 1,3-Diyl Trapping Reactions. A Formal Total Synthesis of -Coriolin," <u>J. Organic Chemistry</u> , 50:3942-3944 (1985)	
	YM	Veldkamp, W.B., "Binary optics: the optics technology of the 1990s," <u>CLEO 90</u> , Vol. 7, paper # CMG6 (1990)	
	YN	Verlaan-de Vries et al., "A dot-blot screening procedure for mutated <i>ras</i> oncogenes using synthetic oligodeoxynucleotides," <u>Gene</u> , 50:313-320 (1986)	
	YO	Verpoorte et al., "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> , 4:246-256 (1994)	
	YP	Viegas-Pequignot et al., "Mapping of single-copy DNA sequences on human chromosomes by <i>in situ</i> hybridization with biotinylated probes: Enhancement of detection sensitivity by intensified-fluorescence digital-imaging microscopy," <u>PNAS</u> , 86:582-586 (1989).	
	YQ	Volkmuth et al., "DNA electrophoresis in microlithographic arrays," <u>Nature</u> , 358:600-602 (1992)	
	YR	Voss et al., "The immobilization of oligonucleotides and their hybridization properties," <u>Biochem. Soc. Transact.</u> , 16:216-217 (1988)	
	YS	Wada, A., <u>International Workshop on Automatic and High Speed DNA Base Sequencing</u> , Hayashibara Forum 1987 at Hayashibara Biochemical Laboratories, Okayama, Japan, July 7-9, 1987.	

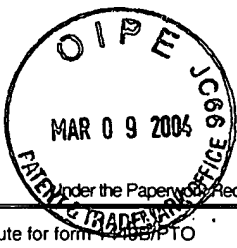
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **36** of **38**

### Complete if Known

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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	YT	Walker et al., "Photolabile Protecting Groups for an Acetylcholine Receptor Ligand. Synthesis and Photochemistry of a New Class of o-Nitrobenzyl Derivatives and their Effects on Receptor Function," <u>Biochemistry</u> , 25:1799-1805 (1986)	
	YU	Wallace et al., "The use of synthetic oligonucleotides as hybridization probes. II. Hybridization of oligonucleotides of mixed sequence to rabbit $\beta$ -globin DNA," <u>Nuc. Acids Res.</u> , 9(4):879 (1981).	
	YV	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to $\Phi\chi$ 174 DNA: the effect of single base pair mismatch," <u>Nuc. Acids Res.</u> , 11(6):3543-3557 (1979)	
	YW	Washizu et al., "Handling Biological Cells Using a Fluid Integrated Circuit," <u>IEEE Transactions Industry Applications</u> , 26(2):352-358 (1990)	
	AAN	Weetall et al., "Covalent Coupling Methods for Inorganic Support Materials," <u>Methods in Enzymology</u> , 44:134-148 (1976).	
	AAO	Wetmur, James, "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <u>Chemtracts-Biochem Mol. Biol.</u> , (2): 207-210 (1991).	
	YX	Wiedmann, M. et al., "Ligase Chain Reaction (LCR) - Overview and Applications," <u>PCR Meth. Appl.</u> , 3(4):S51-S64 (1994).	
	YY	Werner et al., "Size-Dependent Separation of Proteins Denatured in SDS by Capillary Electrophoresis Using a Replaceable Sieving Matrix," <u>Anal. Biochem.</u> , 212:253-258 (1993)	
	YZ	White et al., "An Evaluation of Confocal Versus Conventional Imaging of Biological Structures by Fluorescence Light Microscopy," <u>J. Cell Biol.</u> , 105(1):41-48 (1987)	
	ZA	Widacki et al., "Biochemical Differences in Qa-2 Antigens Expressed by Qa-2+6+ and Qa-2a+6- Strains. Evidence for Differential Expression of the Q7 and Q9 Genes," <u>Mol. Immunology</u> , 27(6):559-570 (1990)	
	ZB	Wilcox et al., "Synthesis of Photolabile 'Precursors' of Amino Acid Neurotransmitters," <u>J. Org. Chem.</u> , 55:1585-1589 (1990)	
	ZC	Wilding et al., "PCR in a Silicon Microstructure," <u>Clin. Chem.</u> , 40(9):1815-1818 (1994)	
	ZD	Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon," <u>Clin. Chem.</u> , 40(1):43-47 (1994)	
	ZE	Wittman-Liebold, eds., <u>Methods in Protein Sequence Analysis</u> , from Proceedings of 7th Int'l Conf., Berlin, Germany, 7/3-8/88, table of contents, pp. xi-xx* (1989)	

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Sheet **37** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

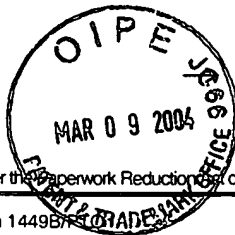
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	ZF	Wood et al., "Base composition-independent hybridization in tetramethylammonium chloride: A method for oligonucleotide screening of highly complex gene libraries," <u>PNAS</u> , 82:1585-1588 (1985).	
	ZG	Woolley et al., "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips," <u>PNAS</u> , 91:11348-11352 (1994)	
	ZH	Wu et al., "Synthesis and Properties of Adenosine-5'-triphospho-γ-5-(5-sulfonic acid)naphthyl Ethylamidate: A Fluorescent Nucleotide Substrate for DNA-Dependent RNA Polymerase from <i>Escherichia coli</i> ," <u>Arch. Biochem. Biophys.</u> , 246(2):564-571 (1986)	
	ZI	Wu et al., "Laboratory Methods, Direct Analysis of Single Nucleotide Variation in Human DNA and RNA Using <i>In Situ</i> Dot Hybridization," <u>DNA</u> , 8(2):135-142 (1989)	
	ZJ	Yamamoto et al., "Features and applications of the laser scanning microscope," <u>J. Mod. Optics</u> , 37(11):1691-1701 (1990)	
	ZK	Yarbrough et al., "Synthesis and Properties of Fluorescent Nucleotide Substrates for DNA-dependent RNA Polymerases," <u>J. Biol. Chem.</u> , 254(23):12069-12073 (1979)	
	ZL	Yosomiya et al., "Performance, Glass fiber Having Isocyanate Group on the Surface. Preparation and Reaction with Amino Acid," <u>Polymer Bulletin</u> , 12:41-48 (1984)	
	ZM	Young, W.S., "Simultaneous Use of Digoxigenin- and Radiolabeled Oligodeoxynucleotide Probes for Hybridization Histochemistry," <u>Neuropeptides</u> , 13:271-275 (1989)	
	ZN	Yue et al., "Miniature Field-Flow Fractionation System for Analysis of Blood Cells," <u>Clin. Chem.</u> , 40(9):1810-1814 (1994)	
	ZO	Zehavi et al., "Light-Sensitive Glycosides. I. 6-Nitroveratryl β-D-Glucopyranoside and 2-Nitrobenzyl β-D-Glucopyranoside," <u>J. Org. Chem.</u> , 37(14):2281-2285 (1972)	
	ZP	Zengerle et al., "Transient measurements on miniaturized diaphragm pumps in microfluid systems," <u>Sensors and Actuators</u> , A46-47:557-561 (1995)	
	ZQ	Zischler et al., "Non-radioactive oligonucleotide fingerprinting in the gel," <u>Nuc. Acids Res.</u> , 17(11):4411 (1989).	
	ZR	Zischler et al., "Digoxigenated oligonucleotide probes specific for simple repeats in DAN fingerprinting and hybridization in situ," <u>Hum. Genet.</u> , 82:227-233 (1989).	
	ZS	Sequencing by Hybridization Workshop, listing of participants and workshop presentation summaries, from workshop held 11/19-20/91.	

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Sheet **38** of **38****Complete if Known**

Application Number	10/014,716
Filing Date	December 14, 2001
First Named Inventor	Fodor
Art Unit	1627
Examiner Name	Ponnaluri, P.
Attorney Docket Number	018547-048200US

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	ZT	"A Sequencing Reality Check," <u>Science</u> , 242:1245 (1988)	
	ZU	"Affymax raises \$25 million to develop high-speed drug discovery system," <u>Biotechnology News</u> , 10(3):7-8 (1990)	
	ZV	"Preparation of fluorescent-labeled DNA and its use as a probe in molecular hybridization," <u>Bioorg Khim</u> , 12(11):1508-1513 (1986)	

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